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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-05-02-22
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of drain from Appayanna layout to Depot Muniswamappa layout and surrounding area in ward no.12 Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/328/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-22 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-05-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Date: 05-05-2018

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	160 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-22**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 05-05-2018**
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of drain from Appayanna layout to Depot Muniswamappa layout and surrounding area in ward no.12 Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/328/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-22 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1215	1215	8.1	91.9	90-100
3	20 mm	5320	6535	43.6	56.4	30-70
4	10 mm	6255	12790	85.3	14.7	10-35
5	4.75 mm	1637	14427	96.2	3.8	0-5
6	Pan	573	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-02-22**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore. **Date: 05-05-2018**
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of drain from Appayanna layout to Depot Muniswamappa layout and surrounding area in ward no.12 Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer Reference	:	BBMP/EE/DD/WO/328/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-22 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	429	429	8.6	91.4	90-100
3	10 mm	2435	2864	57.3	42.7	25-55
4	4.75 mm	1833	4697	93.9	6.1	0-10
5	Pan	303	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Format No: CP/TF/01

Date: 05-05-2018

Lab ID	:	CP-2018-05-02-22
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of drain from Appayanna layout to Depot Muniswamappa layout and surrounding area in ward no.12 Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/328/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-22 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-05-2018
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	127	152	15.2	84.8	60-95	75-100	85-100	95-100
4	1.18 mm	275	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	137	564	56.4	43.6	15-34	35-59	60-79	80-100
6	300 micron	189	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	154	907	90.7	9.3	0-10	0-10	0-10	0-15
8	Pan	93	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 05-05-2018

Lab ID	:	**CP-2018-05-02-22**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of drain from Appayanna layout to Depot Muniswamappa layout and surrounding area in ward no.12 Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/328/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-2018
Sample ID No	:	2018-05-02-22 /01
Sample Type /Size	:	Precast Cover Slab (100 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/05/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/05/2018

Lab ID	:	**CP-2018-05-17-08**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of drain from Appayanna layout to Depot Muniswamappa layout and surrounding area in ward no.12 Shettyhalli Sub Division.
Agency	:	Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	BBMP/EE/DD/WO/328/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-05-2018
Sample ID No	:	2018-05-17-08 /05
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	12/05/2018	19/05/2018	150.71 X 150.85 X 151.79	22735	8.162	395.6	17.4	18.3
2	RCC	M20	12/05/2018	19/05/2018	151.29 X 151.82 X 151.17	22970	8.346	425.9	18.5	
3	RCC	M20	12/05/2018	19/05/2018	150.43 X 150.33 X 149.93	22614	8.390	429.2	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-05-17-08

Date: 09/06/2018

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Construction of drain from Appayanna layout to Depot Muniswamappa layout and surrounding area in ward no.12 Shettyhalli Sub Division.

Agency : Technical Manager (west), KRIDL, Project Implementation unit, No. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bengaluru-560010

Customer's Reference : BBMP/EE/DD/WO/328/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-05-2018

Sample ID No : 2018-05-17-08 /06

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	12/05/2018	09/06/2018	150.75 X 149.92 X 151.53	22599	8.224	474.2	21.0	20.9
2	RCC	M20	12/05/2018	09/06/2018	149.85 X 150.99 X 149.35	22627	8.456	473.3	20.9	
3	RCC	M20	12/05/2018	09/06/2018	149.27 X 151.33 X 149.35	22590	8.508	469.0	20.8	

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